



CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

Chief, Enforcement Branch  
Water Division (WC-15J)  
United States Environmental Protection Agency  
77 West Jackson Boulevard  
Chicago, Illinois 60604-3590

July 11, 2018  
PJ/DW

Subject: Consent Decree – Case No. 2:96-CV-96-RL-1  
Dewatering Well System, 2nd Quarter 2018  
ArcelorMittal Burns Harbor, LLC

**RECEIVED**  
JUL 19 2018

WATER ENFORCEMENT & COMPLIANCE  
ASSURANCE BRANCH, EPA, REGION 5

Dear Sir:

This is to provide the quarterly monitoring report required by Paragraph 23 of the subject Consent Decree. Attachment 1 provides a summary of the nitrogen ammonia analytical results for the monthly grab samples of the combined dewatering well waters as required by Paragraph 20 of the Decree. Attachment 2 provides a table that depicts the daily total flow in thousand gallons per day, from the dewatering well system as required in Paragraph 19 of the Decree. Attachment 3 provides the "East Harbor Arm – Dewatering Monitoring Status Report" sheets for April, May and June, 2018 compiled by our groundwater consultant, Weaver Consultants Group. These reports provide the level of groundwater in each of the piezometers and the Outfall 002 surface water staff gauge levels as required by Paragraph 9 of the Decree.

This letter will also provide Burns Harbor's statement that "all of the wells, pumps, and pipes in the Dewatering Well System are functioning", as specified in Paragraph 23 of the Decree.

As described in previous letters on October 23, 2000 and January 23, 2001 from D. Bley to Mr. J. Filippini, et al., and as witnessed by Mr. G. Golubski, water levels in Lake Michigan had been extremely low. Recently, the lake has begun to rise. The average level for the quarter was 581.4 feet with a low of 580.6 feet.

The Decree requires that the ground water in the piezometers along the face of the dock wall be maintained at certain depths in reference to Lake levels. These depths vary from piezometer to piezometer and were based on Burns Harbor's experience in operating the wells in 1996 and 1997. The dewatering wells continue to operate properly but several are at depths near their screens and cannot be adjusted lower. Some have valves that have been adjusted wide open. As a result, it has not been possible to maintain the depths



specified in the Decree for the piezometers. In the past quarter, all of the piezometers were consistently above the level specified. There is a limit to the level that the wells can operate without damaging the screens or the pumps, and we have reached that limit.

As noted in previous quarterly reports, Mr. Bley has received your office's informal agreement that the drop in lake water level should be viewed as a "force majeure" under the Decree. The more important point is that the well system continues to operate in a manner that meets its purpose.

If there are any questions concerning this matter, please contact T. E Kirk or me at (219) 787-2712.

I certify under the penalty of law that I have personally examined and am familiar with the information submitted herein and that I have made a diligent inquiry of those individuals immediately responsible for obtaining the information and that to the best of my knowledge and belief, the information submitted herewith is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Very truly yours,

A handwritten signature in black ink, appearing to read "R.A. Maciel".

R.A. Maciel  
Environmental Management Department

Attachments

cc: S. Choi, USEPA

July 11, 2018  
Ref: PJ/RA/DW

Attachment 1  
ArcelorMittal Burns Harbor, LLC  
Nitrogen Ammonia Analytical Report  
Dockwell Sampling Summary

<u>Date</u>	<u>Nitrogen Ammonia (mg/l)</u>
04/11/18	8.4
05/03/18	9.0
06/13/18	8.7

July 11, 2018  
Ref.: PJ/DW

Attachment 2  
ArcelorMittal Burns Harbor LLC  
Dewatering Well Flow

<u>Date</u>	<u>Flow TGD</u>	<u>Date</u>	<u>Flow TGD</u>	<u>Date</u>	<u>Flow TGD</u>
01-Apr-18	314	01-May-18	369	01-Jun-18	295
02-Apr-18	313	02-May-18	367	02-Jun-18	296
03-Apr-18	325	03-May-18	377	03-Jun-18	297
04-Apr-18	348	04-May-18	360	04-Jun-18	298
05-Apr-18	354	05-May-18	361	05-Jun-18	297
06-Apr-18	316	06-May-18	361	06-Jun-18	294
07-Apr-18	311	07-May-18	415	07-Jun-18	295
08-Apr-18	285	08-May-18	418	08-Jun-18	299
09-Apr-18	279	09-May-18	414	09-Jun-18	298
10-Apr-18	300	10-May-18	421	10-Jun-18	299
11-Apr-18	308	11-May-18	426	11-Jun-18	300
12-Apr-18	371	12-May-18	424	12-Jun-18	300
13-Apr-18	425	13-May-18	424	13-Jun-18	287
14-Apr-18	418	14-May-18	426	14-Jun-18	305
15-Apr-18	421	15-May-18	433	15-Jun-18	379
16-Apr-18	423	16-May-18	371	16-Jun-18	434
17-Apr-18	413	17-May-18	314	17-Jun-18	427
18-Apr-18	408	18-May-18	292	18-Jun-18	435
19-Apr-18	404	19-May-18	292	19-Jun-18	437
20-Apr-18	400	20-May-18	289	20-Jun-18	428
21-Apr-18	397	21-May-18	287	21-Jun-18	410
22-Apr-18	396	22-May-18	288	22-Jun-18	403
23-Apr-18	392	23-May-18	287	23-Jun-18	423
24-Apr-18	390	24-May-18	307	24-Jun-18	423
25-Apr-18	408	25-May-18	290	25-Jun-18	425
26-Apr-18	386	26-May-18	289	26-Jun-18	423
27-Apr-18	377	27-May-18	290	27-Jun-18	414
28-Apr-18	375	28-May-18	288	28-Jun-18	435
29-Apr-18	370	29-May-18	290	29-Jun-18	417
30-Apr-18	367	30-May-18	296	30-Jun-18	418
		31-May-18	296		



**STATUS REPORT**  
 Mittal Steel USA  
 Burns Harbor  
 East Harbor Arm - Dewatering Report

Weekly Status Report

Observations by:

D. Ekkens  
 Weaver Consultants Group, LLC

Date	4/5/2018	Time:	8:30 AM
Staff Gauge (002) Elevation:	580.70	(Ft., MSL)	

Well/Piezoelectric TOC No.	Well/Piezoelectric TOC Elev.	Depth to T/Screen (feet)	DTW (TOC) (feet)	Well/Piezoelectric Water Elev.	Gauge Pres. (PSI)	DTB Piezo (feet)	Piezo Bottom Elevation	Flow Reading (100 gal)	Well/Piezoelectric TOC Elev.	Depth to T/Screen (feet)	DTW (TOC) (feet)	Well/Piezoelectric Water Elev.	Gauge Pres. (PSI)	DTB Piezo (feet)	Piezo Bottom Elevation	Flow Reading (100 gal)
DW-1	596.32	24.0	23.17	573.15	45		6,564		DW-10	596.47	24.0	23.15	573.32	41		27,129
P-511	592.29		filled	#VALUE!	x	#VALUE!			P-520	595.93		9.76	586.17		30.26	555.67
DW-2	595.91	24.0	23.84	572.07	30		3,690		DW-11	595.82	25.7	24.85	570.97	28		163.956
P-512	593.16		x	#VALUE!		25.0	538.21		P-521	596.19		9.56	586.63		33.36	552.83
DW-3	596.13	22.0	21.29	574.84	40		487.939		DW-12	595.28	26.5	9.71	585.57	20		30.392
P-513	592.81		x	#VALUE!		23.4	569.41		P-522	595.17		7.98	587.19		32.9	562.28
DW-4	596.28	23.0	22.54	573.74	44		15.178		DW-13	594.83	27.0	26.91	567.92	32		8.006
P-514	592.80		x	#VALUE!		x	#VALUE!		P-523	592.04		Destroyed	#VALUE!	x	x	#VALUE!
DW-5	596.16	21.0	19.52	576.64	40		13.598		DW-14	594.83	26.5	26.07	568.76	42		109,059
P-515	592.65		x	#VALUE!		22.2	570.46		P-507	591.38		Destroyed	#VALUE!	x	x	#VALUE!
DW-6	596.46	24.0	23.66	572.80	72		13.293		DW-15	594.62	29.5	23.25	571.37	26		60,906
P-516	596.30		10.20	586.10		31.2	565.12		P-524	591.55		x	#VALUE!		34.91	556.64
DW-7	596.39	25.0	24.80	571.59	44		14.015		P-508	591.37		Destroyed	#VALUE!	x	x	#VALUE!
P-517	596.55		10.54	586.01		29.6	566.93		DW-16	594.81	36.0	35.22	559.59	43		20,429
DW-8	596.21	24.5	23.94	572.27	29		16.250									
P-518	596.17		10.19	585.98		30.5	565.66									
DW-9	596.16	24.5	11.20	584.96	8		2.748									
P-519	596.56		10.76	585.80		31.2	565.33									

Remarks DW-6, DW-7 and DW-14 were adjusted down due to high initial water levels.

DW-1, DW-2, DW-4 and DW-5 were adjusted up due to low initial water levels.

DW-9, DW-12 and DW-15 flow valves were wide open.

Key:  
 TOC=Top of Casing, north side  
 DTV=Depth to Water  
 DTB=Depth to Bottom

Contact: Edward Stefanek, Senior Project Manager  
 7121 Grape Road  
 Granger, IN 46530

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 (574) 271-3343 Fax.  
 estefanek@wcgrp.com

# Weaver Consultants Group

## STATUS REPORT

Mittal Steel USA

Burns Harbor

East Harbor Arm - Dewatering Report  
Weekly Status Report

Observations by:

D. Ekkens  
Weaver Consultants Group, LLC

Date	4/12/2018	Time:	8:00 AM
Staff Gauge (002) Elevation:	580.60	(Ft., MSI)	

Barometric Pressure: 30.15 (in Hg)		Temperature (F): 61	
Weather Conditions: Clear			

Well/ Piezo No.	Well/Piezo TOC Elev.	Depth to T/Screen (feet)	DTW (TOC) (feet)	Well/Piezo Water Elev. (PSI)	Gauge Pres. (PSI)	DTB Piezo (feet)	Flow Reading (100 gal)	Well/ Piezo No.	Depth to T/Screen (feet)	DTW (TOC) (feet)	Well/Piezo Water Elev. (PSI)	Gauge Pres. (PSI)	DTB Piezo (feet)	Flow Reading (100 gal)	
DW-1	596.32	24.0	23.61	572.71	45		7,366	DW-10	596.47	24.0	23.19	573.28	46		30,504
P-511	592.29	filled	#VALUE!	x	#VALUE!			P-520	595.93	9.20	586.73				
DW-2	595.91	24.0	23.52	572.39	35		4,176	DW-11	595.82	25.7	24.81	571.01	31		167,263
P-512	593.16	x	#VALUE!	x	25.0	538.21		P-521	596.19	9.15	587.04				
DW-3	596.13	22.0	21.30	574.83	42		490.505	DW-12	595.28	26.5	9.15	586.13	25		
P-513	592.81	x	#VALUE!	x	23.4	569.41		P-522	595.17	7.90	587.27				30,891
DW-4	596.28	23.0	22.74	573.54	48		16,123	DW-13	594.83	27.0	26.89	567.94	33		9,262
P-514	592.80	x	#VALUE!	x	#VALUE!			P-523	592.04	Destroyed	#VALUE!	x	x	#VALUE!	
DW-5	596.16	21.0	19.50	576.66	43		15,287	DW-14	594.83	26.5	25.60	569.23	40		111,638
P-515	592.65	x	#VALUE!	x	22.2	570.46		P-507	591.38	Destroyed	#VALUE!	x	x	#VALUE!	
DW-6	596.46	24.0	23.63	572.83	75		14,416	DW-15	594.62	29.5	21.63	572.99	34		62,414
P-516	596.30	9.42	586.88	31.2	565.12			P-524	591.55	3.85	587.70				
DW-7	596.39	25.0	24.48	571.91	42		15,317	P-508	591.37	Destroyed	#VALUE!	x	x	#VALUE!	
P-517	596.55	9.60	586.95	29.6	566.93			DW-16	594.81	36.0	35.33	559.48	33		21,412
DW-8	596.21	24.5	23.90	572.31	30		17,521								
P-518	596.17	9.20	586.97	30.5	565.66										
DW-9	596.16	24.5	10.42	585.74	2		3,170								
P-519	596.56	9.95	586.61	31.2	565.33										

Remarks DW-1, DW-2, DW-4, DW-5, DW-6, DW-7, DW-8, DW-10, DW-11 and DW-14 were adjusted down due to high initial water levels.  
DW-9, DW-12 and DW-15 flow valves were wide open.

Key:  
TOC=Top of Casing, north side  
DTW=Depth to Water  
DTB=Depth to Bottom

Contact: Edward Stefanek, Senior Project Manager  
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# Weaver Consultants Group

## STATUS REPORT

Mittal Steel USA

Burns Harbor

### East Harbor Arm - Dewatering Report

#### Weekly Status Report

Observations by:

D. Ekkens  
Weaver Consultants Group, LLC

Date 4/19/2018 Time: 8:15 AM  
Staff Gauge (002) Elevation: 581.30 (Ft. MSL)

Barometric Pressure: 30.28 (in Hg)								Temperature (F): 40			
Weather Conditions: Clear								Wind Direction: SSW 5 MPH			

Well/ Piezo No.	Well/Piezo TOC Elev.	Depth to T/Screen (feet)	DTW (TOC) (feet)	Well/Piezo Water Elev.	Gauge Pres. (PSI)	DTB Piezo (feet)	Piezoe Bottom Elevation	Well/Piezo TOC Elev.	Depth to T/Screen (feet)	DTW (TOC) (feet)	Well/Piezo Water Elev.	Gauge Pres. (PSI)	DTB Piezo (feet)	Piezoe Bottom Elevation	Flow Reading (100 gal)				
DW-1	596.32	24.0	7.58	588.74	0				8.136				DW-10	596.47	24.0	23.17	573.30	47	34,359
P-511	592.29	filled	#VALUE!	x	#VALUE!					P-520	595.93	9.60	586.33						
DW-2	595.91	24.0	23.77	572.14	32				4.837	DW-11	595.82	25.7	25.37	570.45	31				171,033
P-512	593.16	x	#VALUE!		25.0	568.21				P-521	596.19	9.30	586.89						
DW-3	596.13	22.0	21.26	574.87	41				493.036	DW-12	595.28	26.5	9.01	586.27	28				31,275
P-513	592.81	x	#VALUE!		23.4	569.41				P-522	595.17	7.82	587.35						
DW-4	596.28	23.0	22.15	574.13	45				18.585	DW-13	594.83	27.0	26.90	567.93	36				10,515
P-514	592.80	x	#VALUE!		x	#VALUE!				P-523	592.04	Destroyed	#VALUE!						
DW-5	596.16	21.0	19.70	576.46	40				18.026	DW-14	594.83	26.5	25.52	569.31	40				113,977
P-515	592.65	x	#VALUE!		22.2	570.46				P-507	591.38	Destroyed	#VALUE!						
DW-6	596.46	24.0	23.10	573.36	35				17.629	DW-15	594.62	29.5	29.42	565.20	35				63,892
P-516	596.30	11.31	584.99		31.2	565.12				P-524	591.55	x	#VALUE!						
DW-7	596.39	25.0	24.17	572.22	39				18.254	P-508	591.37	Destroyed	#VALUE!						
P-517	596.55	11.28	585.27		29.6	566.93				DW-16	594.81	36.0	35.10	559.71	33				22,266
DW-8	596.21	24.5	23.90	572.31	29				20.097										
P-518	596.17	10.38	585.79		30.5	565.66													
DW-9	596.16	24.5	11.21	584.95	10				3.583										
P-519	596.56	10.71	585.85		31.2	565.33													

Remarks DW-1 was offline and could not be restarted.

DW-2 and DW-5 were adjusted up due to low initial water levels.

DW-11 and DW-15 were adjusted down due to high initial water levels.

DW-9 and DW-12 flow valves were wide open.

Key:

TOC=Top of Casing, north side  
DTW=Depth to Water  
DTB=Depth to Bottom

Contact: Edward Stefanek, Senior Project Manager

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# Weaver Consultants Group

## STATUS REPORT

Mittal Steel USA

Burns Harbor

East Harbor Arm - Dewatering Report

Weekly Status Report

Observations by:

D. Ekkens  
Weaver Consultants Group, LLC

Date	4/26/2018	Time:	8:15 AM	Barometric Pressure: 29.98 (in Hg)	Temperature (F): 46
Staff Gauge (002) Elevation:	581.10 (Ft. MSL)	Weather Conditions: Clear		Wind Direction: NNW 3 MPH	

Well/ Piezo No.	Well/Piezo TOC Elev.	Depth to T/Screen (feet)	DTW (TOC) (feet)	Well/Piezo Water Elev. (PSI)	Gauge Pres. (PSI)	DTB (feet)	Piezoelectric Bottom Elevation	Flow Reading (100 gal)	Well/ Piezo No.	Well/Piezo TOC Elev.	Depth to T/Screen (feet)	DTW (TOC) (feet)	Well/Piezo Water Elev. (PSI)	Gauge Pres. (PSI)	DTB (feet)	Piezoelectric Bottom Elevation	Flow Reading (100 gal)
DW-1	596.32	24.0	7.83	588.49	0			8,136	DW-10	596.47	24.0	23.92	572.55	45			38,392
P-511	592.29	filled	#VALUE!	x	#VALUE!				P-520	595.93	9.85	586.08					
DW-2	595.91	24.0	23.80	572.11	38			5,480	DW-11	595.82	25.7	25.02	570.80	29			175,203
P-512	593.16	x	#VALUE!	x	25.0	568.21			P-521	596.19	9.58	586.61					
DW-3	596.13	22.0	21.26	574.87	40			495.529	DW-12	595.28	26.5	9.18	586.10	25			31,643
P-513	592.81	x	#VALUE!	x	23.4	569.41			P-522	595.17	8.04	587.13					
DW-4	596.28	23.0	22.31	573.97	44			20,890	DW-13	594.83	27.0	26.00	568.83	40			11,793
P-514	592.80	x	#VALUE!	x	#VALUE!	x			P-523	592.04	Destroyed	#VALUE!	x	#VALUE!			
DW-5	596.16	21.0	19.64	576.52	42			20,163	DW-14	594.83	26.5	25.93	568.90	40			116,466
P-515	592.65	x	#VALUE!	x	22.2	570.46			P-507	591.38	Destroyed	#VALUE!	x	#VALUE!			
DW-6	596.46	24.0	23.19	573.27	35			20,844	DW-15	594.62	29.5	22.70	571.92	34			65,462
P-516	596.30	11.72	584.58	31.2	565.12				P-524	591.55	x	#VALUE!					
DW-7	596.39	25.0	24.53	571.86	38			21,435	P-508	591.37	Destroyed	#VALUE!	x	#VALUE!			
P-517	596.55	11.71	584.84	29.6	566.93				DW-16	594.81	36.0	35.25	559.56	33			23,167
DW-8	596.21	24.5	23.70	572.51	32			22,689									
P-518	596.17	10.66	585.51	30.5	565.66												
DW-9	596.16	24.5	10.41	585.75	9			3,637									
P-519	596.56	11.03	585.53	31.2	565.33												

Remarks DW-1 was offline and could not be restarted.

DW-6 was adjusted up due to low initial water levels.

DW-9, DW-12 and DW-15 flow valves were wide open.

Key:  
TOC=Top of Casing, north side  
DTW=Depth to Water  
DTB=Depth to Bottom

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# Weaver Consultants Group

## STATUS REPORT

Mittal Steel USA

Burns Harbor

East Harbor Arm - Dewatering Report  
Weekly Status Report

Observations by: D. Ekkens  
Weaver Consultants Group, LLC

Date	5/3/2018	Time:	8:00 AM	Barometric Pressure: <u>29.87</u> (in Hg)	Temperature (F): <u>66</u>	Wind Direction: <u>W 1 MPH</u>
Staff Gauge (002) Elevation:	581.40	(Ft. MSL)				

Well/ Piezo No.	Well/Piezo TOC Elev. (feet)	Depth to T/Screen (feet)	DTW (TOC) (feet)	Well/Piezo Water Elev. (PSI)	Gauge Pres. (PSI)	DTB (feet)	Piezoelectric Bottom Elevation (feet)	Flow Reading (100 gal)	Well/ Piezo No.	Depth to T/Screen (feet)	DTW (TOC) (feet)	Well/Piezo Water Elev. (PSI)	Gauge Pres. (PSI)	DTB (feet)	Piezoelectric Bottom Elevation (feet)	Flow Reading (100 gal)	
DW-1	596.32	24.0	7.75	588.57	0				DW-10	596.47	24.0	23.14	573.33	40			42,431
P-511	592.29	filled	#VALUE!	x	#VALUE!				P-520	595.93	9.97	585.96		30.26	365.67		
DW-2	595.91	24.0	23.83	572.08	32				DW-11	595.82	25.7	25.07	570.75	26			179,393
P-512	593.16	x	#VALUE!	25.0	568.21				P-521	596.19	10.92	585.27		33.36	362.83		
DW-3	596.13	22.0	21.23	574.90	42				DW-12	595.28	26.5	16.13	579.15	22			31,979
P-513	592.81	x	#VALUE!	23.4	569.41				P-522	595.17	7.81	587.36		32.9	362.28		
DW-4	596.28	23.0	22.17	574.11	43				DW-13	594.83	27.0	26.87	567.96	35			13,060
P-514	592.80	x	#VALUE!	x	#VALUE!				P-523	592.04	Destroyed	#VALUE!	x	x	#VALUE!		
DW-5	596.16	21.0	20.50	575.66	41				DW-14	594.83	26.5	26.21	568.62	35			118,946
P-515	592.65	x	#VALUE!	22.2	570.46				P-507	591.38	Destroyed	#VALUE!	x	x	#VALUE!		
DW-6	596.46	24.0	23.06	573.40	70				DW-15	594.62	29.5	29.20	565.42	29			67,017
P-516	596.30	11.74	584.56	31.2	565.12				P-524	591.55	x	#VALUE!		34.91	356.64		
DW-7	596.39	25.0	24.13	572.26	35				P-508	591.37	Destroyed	#VALUE!	x	x	#VALUE!		
P-517	596.55	11.54	585.01	29.6	566.93				DW-16	594.81	36.0	35.92	558.89	32			24,051
DW-8	596.21	24.5	23.87	572.34	33												
P-518	596.17	10.50	585.67	30.5	565.66												
DW-9	596.16	24.5	10.39	585.77	11												
P-519	596.56	11.04	585.52	31.2	565.33												

Remarks DW-1 was offline and could not be restarted.

DW-8 and DW-15 were adjusted down due to high initial water levels.

DW-11 and DW-16 were adjusted up due to low initial water levels.

DW-9 and DW-12 flow valves were wide open.

Key:  
TOC=Top of Casing north side  
DTW=Depth to Water  
DTB=Depth to Bottom

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## STATUS REPORT

Mittal Steel USA

Burns Harbor

East Harbor Arm - Dewatering Report

## Weekly Status Report

Observations by:

D. Ekkens  
Weaver Consultants Group, LLC

Date	5/10/2018	Time:	9:00 AM	Barometric Pressure:	29.93	(in Hg)	Temperature (F):	64
Staff Gauge (002) Elevation:	581.30	(Ft. MSL)		Weather Conditions:	Cloudy		Wind Direction:	NW 7 MPH

Well/ Piezo No.	Well/Piezo TOC Elev.	Depth to T/Screen (feet)	DTW (TOC) (feet)	Well/Piezo Water Elev. (PSI)	Gauge Pres. (PSI)	DTB (feet)	Piezoelectric Bottom Elevation	Flow Reading (100 gal)	Well/ Piezo No.	Well/Piezo TOC Elev.	Depth to T/Screen (feet)	DTW (TOC) (feet)	Well/Piezo Water Elev. (PSI)	Gauge Pres. (PSI)	DTB (feet)	Piezoelectric Bottom Elevation	Flow Reading (100 gal)
DW-1	596.32	24.0	572.42	20				8,609	DW-10	596.47	24.0	23.13	573.34	38			46,620
P-511	592.29	filled	#VALUE!	x	#VALUE!				P-520	595.93	10.11	585.82		30.26	565.67		
DW-2	595.91	24.0	572.08	33		6,791			DW-11	595.82	25.7	25.28	570.54	25			184,149
P-512	593.16	x	#VALUE!		25.0	568.21			P-521	596.19	9.26	586.93		33.36	562.83		
DW-3	596.13	22.0	574.92	30		500.573			DW-12	595.28	26.5	9.21	586.07	20			32,256
P-513	592.81	x	#VALUE!		23.4	569.41			P-522	595.17	8.16	587.01		32.9	562.28		
DW-4	596.28	23.0	574.18	43		25.533			DW-13	594.83	27.0	26.98	567.85	33			14,337
P-514	592.80	x	#VALUE!	x	#VALUE!				P-523	592.04	Destroyed	#VALUE!		x	#VALUE!		
DW-5	596.16	21.0	575.99	44		23.923			DW-14	594.83	26.5	25.76	569.07	40			120,981
P-515	592.65	x	#VALUE!		22.2	570.46			P-507	591.38	Destroyed	#VALUE!		x	#VALUE!		
DW-6	596.46	24.0	573.26	70		27.063			DW-15	594.62	29.5	27.30	567.32	28			68,852
P-516	596.30	11.84	584.46		31.2	565.12			P-524	591.55	x	#VALUE!		34.91	556.64		
DW-7	596.39	25.0	571.47	34		28.149			P-508	591.37	Destroyed	#VALUE!		x	#VALUE!		
P-517	596.55	11.86	584.69		29.6	566.93			DW-16	594.81	36.0	35.92	558.89	42			24,283
DW-8	596.21	24.5	571.96	28		26.736											
P-518	596.17	10.80	585.37		30.5	565.66											
DW-9	596.16	24.5	585.61	8		3,637											
P-519	596.56	11.16	585.40		31.2	565.33											

Remarks DW-6 was adjusted up due to low initial water levels.

DW-5 and DW-16 were adjusted down due to high initial water levels.

DW-9, DW-12 and DW-15 flow valves were wide open. DW-9 flow meter did not advance despite being operational.

Key:  
 TOC=Top of Casing, north side  
 DTW=Depth to Water  
 DTB=Depth to Bottom

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# Weaver Consultants Group

## STATUS REPORT

Mittal Steel USA

Burns Harbor

East Harbor Arm - Dewatering Report

Weekly Status Report

Observations by:  
D. Ekkens  
Weaver Consultants Group, LLC

Date	5/17/2018	Time:	8:30 AM	Barometric Pressure: <u>30.04</u>	(in Hg)	Temperature (F): <u>73</u>	Wind Direction: NNE 5 MPH
Staff Gauge (002) Elevation:	581.60	(Ft. MSL)	Weather Conditions: Clear				

Well/ Piezo No.	Well/Piezo TOC Elev. (feet)	Depth to T/Screen (feet)	DTW (TOC) Water Elev. (feet)	Well/Piezo Piezo Bottom Elevation (feet)	DTB Piezo Elev. (feet)	Flow Reading (100 gal)	Well/ Piezo No.	Depth to T/Screen (feet)	DTW (TOC) Water Elev. (feet)	Well/Piezo Gauge Pres. (PSI)	Gauge Pres. (PSI)	DTB Piezo Bottom Elevation (feet)	Flow Reading (100 gal)
DW-1	596.32	24.0	23.56	572.76	40	9,775	DW-10	596.47	24.0	23.02	573.45	46	50,768
P-511	592.29	filled	#VALUE!	x	#VALUE!		P-520	595.93	9,711	586.22		30.26	565.67
DW-2	595.91	24.0	23.29	572.62	38	7,394	DW-11	595.82	25.7	25.28	570.54	31	189,056
P-512	593.16	x	#VALUE!	25.0	568.21		P-521	596.19	9,477	586.72		33.36	562.83
DW-3	596.13	22.0	21.27	574.86	42	503.146	DW-12	595.28	26.5	7.88	587.40	24	32,469
P-513	592.81	x	#VALUE!	23.4	569.41		P-522	595.17	7,800	587.37		32.9	562.28
DW-4	596.28	23.0	22.61	573.67	47	27.990	DW-13	594.83	27.0	26.82	568.01	38	15,584
P-514	592.80	x	#VALUE!	x	#VALUE!		P-523	592.04	Destroyed #VALUE!		x	#VALUE!	
DW-5	596.16	21.0	19.95	576.21	42	26.384	DW-14	594.83	26.5	25.76	569.07	44	123,091
P-515	592.65	x	#VALUE!	22.2	570.46		P-507	591.38	Destroyed #VALUE!		x	#VALUE!	
DW-6	596.46	24.0	23.40	573.06	24	30.163	DW-15	594.62	29.5	17.79	576.83	38	70,727
P-516	596.30	11.26	585.04	31.2	565.12		P-524	591.55	x	#VALUE!		34.91	556.64
DW-7	596.39	25.0	24.33	572.06	34	31.608	P-508	591.37	Destroyed #VALUE!		x	#VALUE!	
P-517	596.55	11.25	585.30	29.6	566.93		DW-16	594.81	36.0	35.92	558.89	38	25,005
DW-8	596.21	24.5	24.12	572.09	28	28.456							
P-518	596.17	10.33	585.84	30.5	565.66								
DW-9	596.16	24.5	10.15	586.01	11	3,637							
P-519	596.56	10.74	585.82	31.2	565.33								

Remarks DW-1 was adjusted up due to low initial water levels.

DW-2, DW-4, DW-6, DW-7, DW-8, DW-11, DW-14 and DW-16 were adjusted down due to high initial water levels.

DW-9, DW-12 and DW-15 flow valves were wide open. DW-9 flow meter did not advance despite being operational.

Key:  
TOC=Top of Casing, north side  
DTW=Depth to Water  
DTB=Depth to Bottom

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# Weaver Consultants Group

## STATUS REPORT

Mittal Steel USA

Burns Harbor

East Harbor Arm - Dewatering Report  
Weekly Status Report

Observations by: D. Ekkens  
Weaver Consultants Group, LLC

Date	5/24/2018	Time:	8:00 AM	Barometric Pressure:	30.20	(in Hg)	Temperature (F):	80
Staff Gauge (002) Elevation:	581.50	(Ft. MSL)		Weather Conditions:	Clear		Wind Direction:	S 6.9 MPH
Well/Piezo TOC No.	Well/Piez zo TOC Elev. DW-1	Depth to T/Screen (feet)	DTW (TOC) feet)	Well/Piez zo Wafer Elev. DW-10	Gauge Pres. (PSI)	DTB Piezo Bottom Elevation (feet)	Well/Piez zo TOC Elev. DW-11	Depth to T/Screen (feet)
596.32	24.0	23.12	573.20	41	10.957	596.47	24.0	23.60
P-511	592.29	filled	#VALUE!	x	#VALUE!	P-520	595.93	9.20
DW-2	595.91	24.0	23.92	571.99	38	DW-11	595.82	25.7
P-512	593.16	x	#VALUE!	25.0	568.21	P-521	596.19	9.09
DW-3	596.13	22.0	21.58	574.55	42	DW-12	595.28	26.5
P-513	592.81	x	#VALUE!	23.4	569.41	P-522	595.17	7.59
DW-4	596.28	23.0	22.46	573.82	48	DW-13	594.83	27.0
P-514	592.80	x	#VALUE!	x	#VALUE!	P-523	592.04	Destroyed
DW-5	596.16	21.0	19.62	576.54	43	DW-14	594.83	26.5
P-515	592.65	x	#VALUE!	22.2	570.46	P-507	591.38	Destroyed
DW-6	596.46	24.0	23.37	573.09	74	DW-15	594.62	29.5
P-516	596.30	10.38	585.92	31.2	565.12	P-524	591.55	x
DW-7	596.39	25.0	24.99	571.40	34	P-508	591.37	Destroyed
P-517	596.55	10.50	586.05	29.6	566.93	DW-16	594.81	36.0
DW-8	596.21	24.5	24.22	571.99	28			24.02
P-518	596.17	9.70	586.47	30.5	565.66			570.79
DW-9	596.16	24.5	9.50	586.66	0			35
P-519	596.56	10.10	586.46	31.2	565.33			25.598

Remarks DW-1 was adjusted up due to low initial water levels.

DW-3, DW-4, DW-5, DW-6, DW-7, DW-8, DW-10, DW-11, DW-13, DW-14 and DW-16 were adjusted down due to high initial water levels.

DW-9, DW-12 and DW-15 flow valves were wide open.

DW-9 was offline upon arrival and was restarted. DW-9 flow meter did not advance despite being operational.

DW-12 flow meter did not advance despite being operational. DW-16 flow valve was stuck and could not be adjusted.

Key:  
TOC=Top of Casing, north side  
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DTB=Depth to Bottom

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# Weaver Consultants Group

## STATUS REPORT

Mittal Steel USA

Burns Harbor

East Harbor Arm - Dewatering Report

Weekly Status Report

Observations by:

D. Ekkens

Weaver Consultants Group, LLC

Date	5/31/2018	Time:	8:15 AM
Staff Gauge (002) Elevation:	581.40	(Ft. MSL)	

Barometric Pressure:	29.71	(in Hg)
Weather Conditions:	Clear	

Barometric Pressure:	29.71	(in Hg)
Temperature (F):	70	
Wind Direction:	SSW 8 MPH	

Well/ Piezo No.	Well/Piezo TOC Elev.	Depth to T/Screen (feet)	DTW (TOC) (feet)	Well/Piezo Water Elev. (PSI)	Gauge Pres. (PSI)	DTB (feet)	Piezometer Bottom Elevation	Flow Reading (100 gal)	Well/ Piezo No.	Well/Piezo TOC Elev.	Depth to T/Screen (feet)	DTW (TOC) (feet)	Well/Piezo Water Elev. (PSI)	Gauge Pres. (PSI)	DTB (feet)	Piezometer Bottom Elevation	Flow Reading (100 gal)
DW-1	596.32	24.0	23.40	572.92	41		12.124		DW-10	596.47	24.0	20.74	575.73	45			57,380
P-511	592.29	filled	#VALUE!	x	#VALUE!				P-520	595.93	9.20	586.73			30.26	565.67	
DW-2	595.91	24.0	23.52	572.39	38		8.596		DW-11	595.82	25.7	17.40	578.42	30			194,244
P-512	593.16	x	#VALUE!	25.0	568.21				P-521	596.19	8.98	587.21			33.36	562.83	
DW-3	596.13	22.0	18.80	577.33	42		507.426		DW-12	595.28	26.5	7.53	587.75	14			32,469
P-513	592.81	x	#VALUE!	23.4	569.41				P-522	595.17	7.49	587.68			32.9	562.28	
DW-4	596.28	23.0	16.90	579.38	46		31.176		DW-13	594.83	27.0	21.22	573.61	40			17,187
P-514	592.80	x	#VALUE!	x	#VALUE!				P-523	592.04	Destroyed #VALUE!	x	#VALUE!	x			
DW-5	596.16	21.0	20.06	576.10	42		30.171		DW-14	594.83	26.5	25.82	569.01	43			126,018
P-515	592.65	x	#VALUE!	22.2	570.46				P-507	591.38	Destroyed #VALUE!	x	#VALUE!	x			
DW-6	596.46	24.0	23.22	573.24	74		35.174		DW-15	594.62	29.5	14.78	579.84	38			72,379
P-516	596.30	10.55	585.75	31.2	565.12				P-524	591.55	x	#VALUE!			34.91	556.64	
DW-7	596.39	25.0	18.72	577.67	35		36.197		P-508	591.37	Destroyed #VALUE!	x	#VALUE!	x			
P-517	596.55	10.54	586.01	29.6	566.93				DW-16	594.81	36.0	24.07	570.74	35			26,123
DW-8	596.21	24.5	23.62	572.59	28		34.246										
P-518	596.17	9.90	586.27	30.5	565.66												
DW-9	596.16	24.5	10.17	585.99	0		3.818										
P-519	596.56	10.26	586.30	31.2	565.33												

Remarks DW-1 was adjusted up due to low initial water levels.

DW-6, DW-8 and DW-14 were adjusted down due to high initial water levels.

DW-4, DW-7, DW-9, DW-10, DW-12, DW-13 and DW-15 flow valves were wide open.

DW-3, DW-11 and DW-16 flows valves were stuck and could not be adjusted.

DW-12 flow meter did not advance despite being operational.

Key:  
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# Weaver Consultants Group

## STATUS REPORT

Mittal Steel USA

Burns Harbor

East Harbor Arm - Dewatering Report

Weekly Status Report

Observations by:

J. Slough  
Weaver Consultants Group, LLC

Date	6/7/2018	Time:	10:55 AM
Staff Gauge (002) Elevation:	581.80	(Ft. MSL)	

Barometric Pressure: 30.03 (in Hg)

Weather Conditions: Partly Cloudy

Temperature (F): 73

Wind Direction: NNE 4 MPH

Well/ Piezo No.	Well/Piezo TOC Elev.	Depth to T/Screen (feet)	DTW (TOC) (feet)	Well/Piezo Water Elev. (feet)	Gauge Pres. (PSI)	DTB (feet)	Piez Bottom Elevation	Flow Reading (100 gal)	Well/ Piezo No.	Well/Piezo TOC Elev.	Depth to T/Screen (feet)	DTW (TOC) (feet)	Well/Piezo Water Elev. (feet)	Gauge Pres. (PSI)	DTB	Piez Bottom Elevation	Flow Reading (100 gal)
DW-1	596.32	24.0	23.91	572.41	44			13.318	DW-10	596.47	24.0	20.51	575.96	47			60,899
P-511	592.29	F	#VALUE!	X	#VALUE!			9,150	P-520	595.93	9.05	586.88		30.26			565.67
DW-2	595.91	24.0	23.39	572.52	38			25.0	P-521	595.82	25.7	16.93	578.89	32			196,635
P-512	593.16	X	#VALUE!					568.21	DW-11	596.19	7.46	588.73		33.36			562.83
DW-3	596.13	22.0	21.25	574.88	31			50.9,680	DW-12	595.28	26.5	7.44	587.84	7			32,469
P-513	592.81	X	#VALUE!		23.4	569.41			P-522	595.17	7.46	587.71		32.9			562.28
DW-4	596.28	23.0	16.67	579.61	48			32.790	DW-13	594.83	27.0	20.46	574.37	28			18,001
P-514	592.80	X	#VALUE!		0.0	592.80			P-523	592.04	D	#VALUE!		D	#VALUE!		
DW-5	596.16	21.0	18.11	578.05	42			32.283	DW-14	594.83	26.5	18.37	576.46	45			127,439
P-515	592.65	X	#VALUE!		22.2	570.46			P-507	591.38	D	#VALUE!		D	#VALUE!		
DW-6	596.46	24.0	22.10	574.36	74			38.158	DW-15	594.62	29.5	14.21	580.41	40			73,128
P-516	596.30	10.38	585.92	31.2	565.12				P-524	591.55	3.56	587.99		34.91			556.64
DW-7	596.39	25.0	18.52	577.87	34			38.558	P-508	591.37	D	#VALUE!		D	#VALUE!		
P-517	596.55		10.42	586.13		29.6	566.93		DW-16	594.81	36.0	23.91	570.90	38			26,637
DW-8	596.21	24.5	21.56	574.65	28			36.767									
P-518	596.17		9.70	586.47		30.5	565.66										
DW-9	596.16	24.5	9.99	586.17	0			4.006									
P-519	596.56		10.09	586.47		31.2	565.33										

Remarks DW-1 was adjusted up due to low initial water levels.

DW-2, DW-3 and DW-7 were adjusted down due to high initial water levels.

DW-4, DW-5, DW-6, DW-7, DW-8, DW-9, DW-10, DW-12, DW-13 and DW-15 flow valves were wide open.

DW-11, DW-14 and DW-16 flows valves were stuck and could not be adjusted.

DW-12 flow meter did not advance despite being operational.

Key:  
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DTB=Depth to Bottom

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# Weaver Consultants Group

## STATUS REPORT

Mittal Steel USA

Burns Harbor

East Harbor Arm - Dewatering Report  
Weekly Status Report

Observations by: J. Slough  
Weaver Consultants Group, LLC

Date	6/14/2018	Time:	10:55 AM
Staff Gauge (002) Elevation:	581.70	(Ft. MSL)	

Barometric Pressure: 30.08 (in Hg)      Temperature (F): 62.0      Wind Direction: N 1 MPH

Well/ Piezo No.	Well/Piezo TOC Elev.	Depth to T/Screen (feet)	DTW (TOC) (feet)	Well/Piezo Water Elev.	Gauge Pres. (PSI)	DTB Piezo (feet)	Piezoelectric Bottom Elevation	Flow Reading (100 gal)	Well/ Piezo No.	Depth to T/Screen (feet)	DTW (TOC) (feet)	Well/Piezoelectric Water Elev.	Gauge Pres. (PSI)	DTB Piezo (feet)	Piezoelectric Bottom Elevation	Flow Reading (100 gal)	
DW-1	596.32	24.0	23.90	572.42	42			14.473	DW-10	596.47	24.0	23.75	572.72	42		64,465	
P-511	592.29	F	#VALUE!	X	#VALUE!				P-520	595.93	8.73	587.20				30.26	565.67
DW-2	595.91	24.0	23.71	572.20	32			9.759	DW-11	595.82	25.7	18.95	576.87	32		198.549	
P-512	593.16	X	#VALUE!	25.0	568.21				P-521	596.19	8.43	587.76				33.36	562.83
DW-3	596.13	22.0	21.25	574.88	42			512.574	DW-12	595.28	26.5	7.56	587.72	25		0	
P-513	592.81	6.89	585.92	21.3	571.54				P-522	595.17	7.17	588.00				32.9	562.28
DW-4	596.28	23.0	22.65	573.63	44			34.433	DW-13	594.83	27.0	26.56	568.27	28		18.622	
P-514	592.80	X	#VALUE!	X	#VALUE!				P-523	592.04	D	#VALUE!	D	#VALUE!	D	#VALUE!	
DW-5	596.16	21.0	20.35	575.81	40			34.534	DW-14	594.83	26.5	20.61	574.22	45		128.563	
P-515	592.65	X	#VALUE!	22.2	570.46				P-507	591.38	D	#VALUE!	D	#VALUE!	D	#VALUE!	
DW-6	596.46	24.0	23.57	572.89	70			41.265	DW-15	594.62	29.5	15.75	578.87	38		73.721	
P-516	596.30	10.72	585.58	31.2	565.12				P-524	591.55	3.14	588.41				34.91	556.64
DW-7	596.39	25.0	19.86	576.53	34			40.908	P-508	591.37	D	#VALUE!	D	#VALUE!	D	#VALUE!	
P-517	596.55	10.68	585.87	29.6	566.93				DW-16	594.81	36.0	15.75	579.06	35		27.048	
DW-8	596.21	24.5	23.52	572.69	28			39.277									
P-518	596.17	9.79	586.38	30.5	565.66												
DW-9	596.16	24.5	10.42	585.74	0			4.199									
P-519	596.56	10.15	586.41	31.2	565.33												

Remarks DW-1, DW-2, DW-4, DW-6 and DW-8 were adjusted up due to low initial water levels.

DW-11 through DW-16 were not operational upon arrival. All were reset and resumed operation except DW-12.

DW-7, DW-9, DW-11, DW-14 and DW-15 flow valves were wide open.

DW-12 was not operational and under repair.

DW-16 flow valve was stuck and could not be adjusted.

Key:

TOC=Top of Casing, north side  
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DTB=Depth to Bottom

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# Weaver Consultants Group

## STATUS REPORT

Mittal Steel USA

Burns Harbor

East Harbor Arm - Dewatering Report

Weekly Status Report

Observations by:

J. Slough  
Weaver Consultants Group, LLC

Date 6/21/2018  
Staff Gauge (002) Elevation: 581.90 (Ft. MSL)

Time: 8:35 AM

Barometric Pressure: 29.79 (in Hg)  
Weather Conditions: Rain

Temperature (F): 69  
Wind Direction: ESE 8 MPH

Well/Piez o No.	Well/Piez o TOC Elev.	Depth to T/Screen (feet)	DTW (TOC) (feet)	Well/Piez o Water Elev.	Gauge Pres. (PSI)	Piez o Bottom Elevation	Flow Reading (100 gal)	Well/ Piezo No.	Well/Piez o TOC Elev.	Depth to T/Screen (feet)	DTW (TOC) (feet)	Well/Piez o Water Elev.	Gauge Pres. (PSI)	DTB	Piez o Bottom Elevation	Flow Reading (100 gal)
DW-1	596.32	24.0	23.28	573.04	46		15.441	DW-10	596.47	24.0	23.72	572.75	45			68.979
P-511	592.29	F	#VALUE!	X	#VALUE!			P-520	591.93	9.81	586.12			30.26	565.67	
DW-2	595.91	24.0	23.52	572.39	36		10.391	DW-11	595.82	25.7	22.46	573.36	31			202.392
P-512	593.16	X	#VALUE!	25.0	568.21			P-521	596.19	9.62	586.57			33.36	562.83	
DW-3	596.13	22.0	21.15	574.98	42		512.574	DW-12	595.28	26.5	25.69	569.59	40			666
P-513	592.81	X	#VALUE!	21.3	571.54			P-522	595.17	8.07	587.10			32.9	562.28	
DW-4	596.28	23.0	22.43	573.85	44		37.199	DW-13	594.83	27.0	26.85	567.98	38			19.666
P-514	592.80	X	#VALUE!	X	#VALUE!			P-523	592.04	D	#VALUE!	D	#VALUE!			
DW-5	596.16	21.0	19.95	576.21	40		37.156	DW-14	594.83	26.5	25.99	568.84	40			138.640
P-515	592.65	X	#VALUE!	22.2	570.46			P-507	591.38	D	#VALUE!	D	#VALUE!			
DW-6	596.46	24.0	23.11	573.35	70		44.822	DW-15	594.62	29.5	21.99	572.63	36			74.998
P-516	596.30	11.68	584.62	31.2	565.12			P-524	591.55	3.14	588.41			34.91	556.64	
DW-7	596.39	25.0	24.49	571.90	34		44.191	P-508	591.37	D	#VALUE!	D	#VALUE!			
P-517	596.55	11.65	584.90	29.6	566.93			DW-16	594.81	36.0	35.66	559.15	35			27.755
DW-8	596.21	24.5	23.85	572.36	28											
P-518	596.17	10.76	585.41	30.5	565.66											
DW-9	596.16	24.5	12.36	583.80	40											
P-519	596.56	11.12	585.44	31.2	565.33											

Remarks  
DW-2, DW-4, DW-6, DW-8, DW-10, DW-14 and DW-16 was adjusted up due to low initial water levels.  
DW-1 and DW-12 were adjusted down due to high initial water levels.  
DW-9 and DW-15 flow valves were wide open.  
DW-11 flow valve was stuck and could not be adjusted.

Key:  
TOC=Top of Casing, north side  
DTW=Depth to Water  
DTB=Depth to Bottom

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STATUS REPORT

Mittal Steel USA

Birnes Harbor

# East Harbor Arm - Dewatering Report

## Weekly Status Report

Weekly Status Report

Observations by: P. Kostro Weaver Consultants Group | C

Date 6/28/2018 Time: 8:35 AM Barometric Pressure: 29.93 (in Hg) Temperature (F): 79o  
 Staff Gauge (002) Elevation: 581.90 (Ft. MSL) Weather Conditions: Partly Cloudy Wind Direction: NNW

Remarks	DW-1, DW-2, DW-4, DW-7, DW-10, DW-12, DW-14 and DW-16 was adjusted up due to low initial water levels.
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None of the dewatering wells were adjusted down due to high initial water levels.

DVV-3, DVV-3 and DVV-1 now valves were stuck and could not be adjusted.

DW-15 flow valve was wide open.

TCC=Inn of Cassino north side  
Contact: Edmund Stefanowicz Senior Project Manager  
/CZ/11/274 0147 T-1

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LOC=Top of Casing, north side  
DTW=Depth to Water  
DTB=Depth to Bottom